



ASHA Resins Limited

(Formerly known as Asha Resins Private Limited)

ASHAION C-180H

Cationic Polyelectrolyte Powder

DESCRIPTION:

Ashaion C-180H is a high-charge cationic polyelectrolyte powder with a molecular weight range of 12-17 million. It is specifically designed for use in coagulation, flocculation, and solid-liquid separation processes, especially in applications requiring enhanced removal of suspended solids and organic contaminants. With its high charge density, Ashaion C-180H is highly effective in treating water with high turbidity, as well as in effluent treatment for industries such as textiles, mining, and paper processing. This product provides rapid flocculation, improving solid-liquid separation and reducing sludge volume.

SPECIFICATIONS:

Parameter	Details
Appearance	Off-white to pale beige powder
Charge	High
Molecular Weight	12-17 million
Solubility	Fully water-soluble
Viscosity (1% Solution)	Varies depending on usage
pH Range	5 - 9
Flash Point	Not applicable (non-flammable)

ADVANTAGES:

- 1. High Charge Density:** Provides superior coagulation and flocculation, making it ideal for high-turbidity water and effluent treatments.
- 2. Fast Flocculation:** Promotes rapid floc formation and faster settling rates, improving operational efficiency in water treatment processes.
- 3. Enhanced Solid-Liquid Separation:** Ensures effective separation of suspended solids from water or wastewater, leading to cleaner effluents.

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4. **Cost-Effective:** Requires lower dosages compared to inorganic coagulants, which helps reduce treatment costs.
5. **Improved Sludge Management:** Produces less sludge and allows for easier handling and disposal.
6. **Efficient Across pH Range:** Works effectively within a broad pH range (5-9), providing flexibility in different water treatment applications.
7. **Non-Toxic:** Safe for use in potable water treatment, with minimal environmental impact.
8. **Universal Application:** Ideal for use in municipal water treatment, industrial effluent treatment, and other water purification processes.

APPLICATIONS:

- **Municipal Water Treatment:** Used for coagulation and flocculation in the treatment of drinking water, especially for high-turbidity water sources.
- **Industrial Wastewater Treatment:** Effective in the removal of suspended solids, oils, and organic impurities in effluents from industries such as textiles, chemicals, paper, and food processing.
- **Effluent Treatment Plants:** Ideal for treating industrial effluents with a high concentration of colloidal matter and organic content.
- **Mining and Mineral Processing:** Helps in the treatment of process water and the separation of solids from water used in mining operations.

DOSAGE:

- **Typical Dosage Range: 0.5 - 3 ppm**, depending on the characteristics of the water or effluent being treated and the required performance.
- **Jar Testing:** It is recommended to conduct jar tests to determine the precise dosage required for optimal coagulation and flocculation based on water quality.
- **Industry-Specific Dosage:** For industries like textile or paper, dosage may vary depending on the type and concentration of contaminants present.

METHODS OF DOSING:

- **Laboratory:**
Prepare a 1% solution of Ashaion C-180H by dissolving 1 g of powder in 100

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ml of distilled water. Perform jar tests to evaluate coagulation and flocculation efficiency.

- **Plant:**

A typical dilution of **0.1% - 1%** is recommended for plant-scale applications. The product can be dosed manually or through automated metering systems, depending on the plant's configuration and requirements.

HANDLING PRECAUTIONS:

- **Dust Control:** Avoid inhalation of dust while handling. Wear a dust mask or respirator to minimize exposure.
- **Skin & Eye Contact:** In case of contact, wash immediately with plenty of water.
- **Personal Protective Equipment (PPE):** Always use gloves, goggles, and dust masks while handling the product to prevent irritation or exposure.
- **Corrosive Properties:** While Ashaion C-180H is not highly corrosive, it is recommended to handle the product with care to prevent prolonged skin or eye exposure.

PACKAGING:

Ashaion C-180H is available in:

- **25 kg or 50 kg HDPE bags.**

STORAGE & SHELF LIFE:

- Store the product in a cool, dry place, away from moisture and direct sunlight to maintain its quality.
- Ensure that the product is kept in its original, sealed packaging until use.
- **Shelf life: 12 months** from the date of manufacture when stored in optimal conditions.

MATERIAL HANDLING:

- Use corrosion-resistant equipment, such as stainless steel or plastic, for storage and handling.
- Prior to long shutdowns, flush feed systems with water to prevent product build-up or clogging.

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- Always store the product in a clean, dry environment to prevent contamination and maintain product integrity.

DISCLAIMER:

The information provided in this product data sheet is based on current knowledge and best practices. However, the actual performance of Ashaion C-180H may vary depending on specific conditions of use. It is recommended to conduct trials to determine compatibility and effectiveness under local conditions.

For more information, including safety data sheets, please contact us.

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